

# INTERFERENCE

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	((valve pulsator) and (pair dual multiple both tandem) near6 (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) adj (movement exten\$4 motion as\$1en\$4 ris\$3) and phasing and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture)).clm.	US-PGPUB	OR	ON	2007/07/20 20:03
L2	0	((valve pulsator) and (pair dual multiple both tandem) near6 (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) near4 (movement exten\$4 motion as\$1en\$4 ris\$3) and phasing and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture)).clm.	US-PGPUB	OR	ON	2007/07/20 20:27
L3	0	((valve pulsator) and (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) near4 (movement exten\$4 motion as\$1en\$4 ris\$3) and phasing and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture)).clm.	US-PGPUB	OR	ON	2007/07/20 20:07
L5	4411	((187/274,275,347) or (254/423,89H,93R) or (60/562, FOR000) or (137/598) or (91/515) or (60/546) or (414/585)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/07/20 20:26
L6	1295	L5 and @ad<"20010428"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/20 20:26
L7	1502	F15B007/00.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/20 20:26
L8	2743	(L6 L7)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/20 20:26
L9	0	8 and ((valve pulsator) and (pair dual multiple both tandem) near6 (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) near4 (movement exten\$4 motion as\$1en\$4 ris\$3) and phasing and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture))	US-PGPUB	OR	ON	2007/07/20 20:30
L12	0	8 and ((valve pulsator) and (pair dual multiple both tandem) near6 (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) near4 (movement exten\$4 motion as\$1en\$4 ris\$3) and phasing and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/20 20:31

## EAST Search History

L13	6	8 and ((valve pulsator (postive adj displacement)) and (piston ram cylinder) and (equal\$5 synchroni\$5 co\$1 co\$1join\$3 tandem) near4 (movement exten\$4 motion as\$1en\$4 ris\$3) and (egress outlet discharge) adj (port\$2 opening bor\$3 aperture) and (ingress inlet receiving) adj (port\$2 opening bor\$3 aperture) and (pair dual adjacent tandem) near6 (port\$2 opening bor\$3 aperture))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/07/20 20:32
S1	47	((("4363380") or ("4996906") or ("6059263") or ("6059263") or ("4575976") or ("5334001") or ("5199583") or ("5879137") or ("5676109") or ("6206650") or ("4317647") or ("4477232") or ("4576128") or ("4581896") or ("4941807") or ("5330327") or ("4255957") or ("4297086") or ("4478557") or ("4580954") or ("4625513") or ("4795317") or ("4917003") or ("4946352") or ("5257912") or ("5285871") or ("5316451") or ("5346368") or ("5390585") or ("5433119") or ("5572920") or ("5608332") or ("RE35473") or ("5616007") or ("5638934") or ("5655487") or ("5780743") or ("5782216") or ("5994906") or ("6058705") or ("6058705") or ("6086336") or ("6113365") or ("6126418") or ("6158401") or ("6176085") or ("6196109") or ("6470683") or ("6481335") or ("6606936).pn.")).PN.	USPAT	OR	OFF	2006/05/04 17:50
S2	4366	((187/274,275,347) or (254/423,89H,93R) or (60/562, FOR000) or (137/598) or (91/515) or (60/546) or (414/585)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/04 21:29
S3	0	("2and@ad<20010428").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/04 17:52
S4	1296	S2 and @ad<"20010428"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 15:56
S5	681	S4 and (actuator valve pulsat\$3 proportion\$5 synchroniz\$3 distribut\$3) near8 (fluid hydraulic flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 16:00
S6	63	S5 and (pair dual tandem two) near2 (hole aperture port)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 18:30
S7	618	S5 not S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 18:30
S8	212	S7 and (piston cylinder) and (positive displacement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 18:32

## EAST Search History

S9	194	S7 and (piston cylinder) and (positive displacement) and (circuit (flow process P&I adj (diagram schem\$4 concept)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 18:34
S10	16	S7 and (piston cylinder) and ("positive displacement") and (circuit (flow process P&I adj (diagram schem\$4 concept)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 18:34
S11	17	("2347368"   "2932171"   "2969647"   "3349669"   "3605561"   "4405279"   "4679489"   "5065844"   "5110251").PN. OR ("5791860").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/04 18:37
S12	6	("3625115"   "4706458"   "5012898"   "5024141"   "5096159"   "5199686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/04 18:46
S13	7	("4567727").URPN.	USPAT	OR	ON	2006/05/04 21:06
S14	13	("2460774"   "2466485"   "2593185"   "2643664"   "2956577").PN. OR ("4325400").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/04 21:11
S15	10	("3579989").URPN.	USPAT	OR	ON	2006/05/04 21:21
S16	10	("3625115"   "4706458"   "5012898"   "5024141"   "5096159"   "5199686").PN. OR ("6189432").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/04 21:25
S17	0	(137/10160/546).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/04 21:29
S18	544	((137/101) or (60/546)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/04 21:29
S19	195	S18 and @ad<"20010428"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 21:29
S20	5	((("5513860") or ("4463563") or ("0028685") or ("3347043") or ("2882685")).PN.	USPAT	OR	OFF	2006/05/05 13:34
S21	6	("2882685").URPN.	USPAT	OR	ON	2006/05/05 13:37
S22	6	("3347043").URPN.	USPAT	OR	ON	2006/05/05 13:39
S23	13	("2460774"   "2466485"   "2593185"   "2643664"   "2956577").PN. OR ("4325400").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/05 13:49
S24	21	("3065602"   "3154925"   "3495610"   "4221266").PN. OR ("4337959").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/05 13:54
S25	12	"5199686"	USPAT	OR	ON	2006/05/05 17:29
S26	3	((("5199686") or ("5096159") or ("5102898")).PN.	USPAT	OR	OFF	2007/03/20 22:16
S27	36	Tsymberov	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/05 17:30
S28	1	("5012898").PN.	USPAT	OR	OFF	2006/05/05 17:31

## EAST Search History

S29	0	CN-2345850-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/11 13:53
S30	1	CA-2345850-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/11 13:53
S31	2	09/873243	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/20 20:37
S32	6	((("5,791,860") or ("5,513,943") or ("5,110,251") or ("4,463,563") or ("3,347,043") or ("2,882,685"))).PN.	USPAT	OR	OFF	2007/03/20 22:16
S33	80	(60/546).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/21 15:54
S34	1475	F15B007/00.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 15:55
S35	1191	S34 and @pd<"20010428"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 15:57
S36	613	S35 and (actuat\$3 valve pulsat\$3 proportion\$5 balanc\$3 synchroniz\$3 distribut\$3) near6 (fluid hydraulic flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 16:01
S37	120	S36 and (orifice port\$3 aperture passage\$1way passage channel) near3 (diameter cross\$1section\$3 "dia." x-section area)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/21 16:02
S38	2	("3703079").URPN.	USPAT	OR	ON	2007/03/21 16:29
S39	20	("2112466"   "3502002"   "3990583"   "4205591"   "4354688"   "4463563"   "4529351"   "4563121"   "4638886"   "4655031").PN. OR ("5110251").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 16:32